

ABSTRACT OF THE DISCLOSURE

A distributed feedback (DFB) laser is constructed such that a laser stripe has a minimum tilt angle with respect to a cleaved facet in order to reduce the facet reflectivity. A method for improving the yield of distributed feedback lasers is also provided. The method includes selecting a tilt angle and antireflection coating to achieve a desired effective facet reflectivity. In one embodiment, a range of tilt angles and facet coatings is tested to determine a statistical correlation between yield of a desired laser characteristic, such as side mode suppression ratio, and tilt angle.

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